

FIG. 1

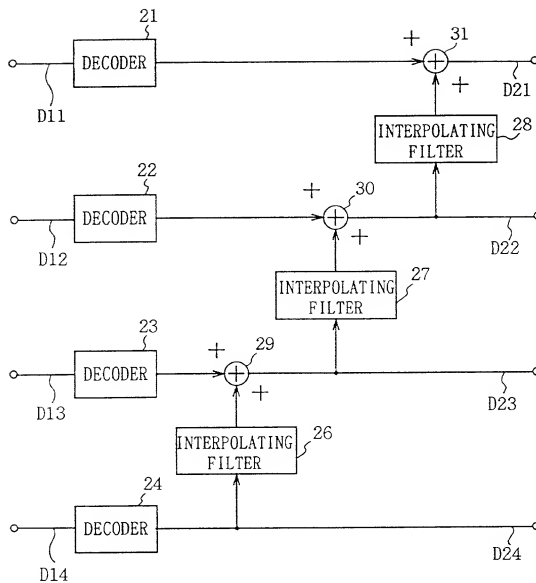
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FIG. 2

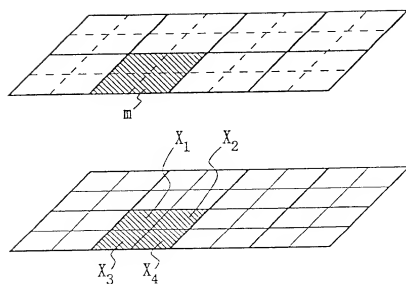


FIG. 3

| STANDARD PICTURES | DIVISION INHIBITING CONDITION TO LOWER HIERARCHY (MAXIMUM DIFFERENCE DATA \leq THRESHOLD VALUE) | | | | | |
|----------------------------------|--|----------------|----------------|----------------|----------------|----------------|
| | ERROR ≤ 1 | ERROR ≤ 2 | ERROR ≤ 3 | ERROR ≤ 4 | ERROR ≤ 5 | ERROR ≤ 6 |
| SKIN-COLOR CHART | 0.56 | 0.29 | 0.21 | 0.19 | 0.17 | 0.15 |
| YACHT HARBOR | 0.86 | 0.74 | 0.65 | 0.59 | 0.53 | 0.48 |
| SWEATER AND BAG | 0.81 | 0.59 | 0.44 | 0.35 | 0.29 | 0.24 |
| EIFFEL TOWER | 0.59 | 0.38 | 0.30 | 0.26 | 0.24 | 0.22 |
| HAT SHOP | 0.82 | 0.65 | 0.53 | 0.45 | 0.40 | 0.35 |
| LOVERS IN SNOW | 0.65 | 0.35 | 0.23 | 0.18 | 0.14 | 0.12 |
| INFORMATION BOARD FOR TOURIST | 0.75 | 0.60 | 0.53 | 0.47 | 0.43 | 0.40 |
| TULIP GARDEN | 0.91 | 0.87 | 0.83 | 0.79 | 0.75 | 0.72 |
| CHROMAKEY CHART | 0.50 | 0.30 | 0.25 | 0.22 | 0.20 | 0.18 |
| AVERAGE | 0.72 | 0.53 | 0.44 | 0.39 | 0.35 | 0.32 |

FIG. 4

| STANDARD PICTURES | ORIGINAL SIGNAL | FIRST HIERARCHY | SECOND HIERARCHY | THIRD HIERARCHY | FOURTH HIERARCHY | FIFTH HIERARCHY |
|----------------------------------|--------------------|--------------------|---------------------|--------------------|---------------------|--------------------|
| | | | | | | |
| SKIN-COLOR CHART | 30 | 4 | 5 | 5 | 7 | 30 |
| YACHT HARBOR | 58 | 13 | 15 | 16 | 17 | 49 |
| SWEATER AND BAG | 56 | 6 | 7 | 8 | 11 | 53 |
| EIFFEL TOWER | 52 | 8 | 9 | 9 | 10 | 49 |
| HAT SHOP | 56 | 8 | 12 | 15 | 18 | 49 |
| LOVERS IN SNOW | 56 | 4 | 6 | 8 | 10 | 54 |
| INFORMATION BOARD FOR TOURIST | 68 | 11 | 15 | 18 | 19 | 61 |
| TULIP GARDEN | 52 | 17 | 17 | 17 | 16 | 39 |
| CHROMAKEY CHART | 55 | 8 | 9 | 9 | 10 | 52 |
| AVERAGE | 54 | 9 | 11 | 12 | 13 | 48 |

FIG. 5

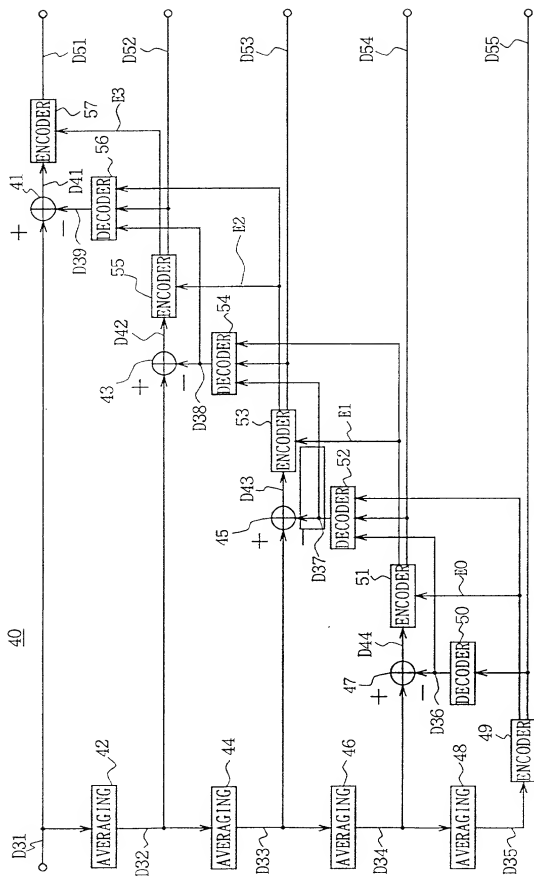


FIG. 6

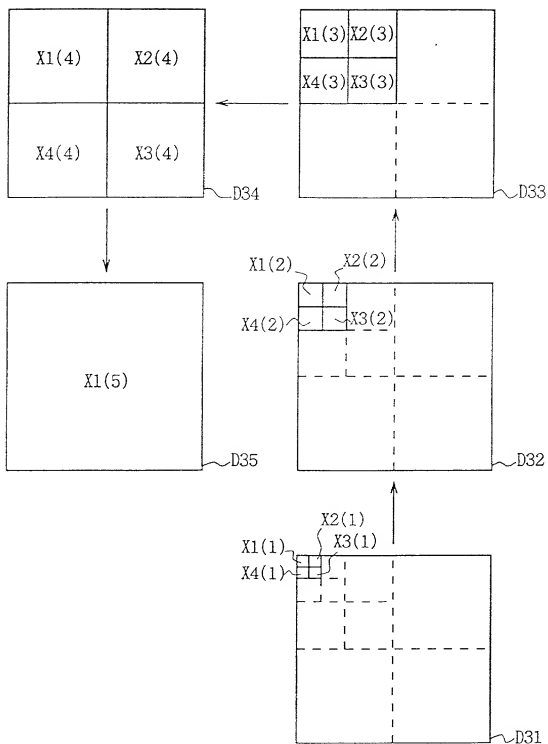


FIG. 7

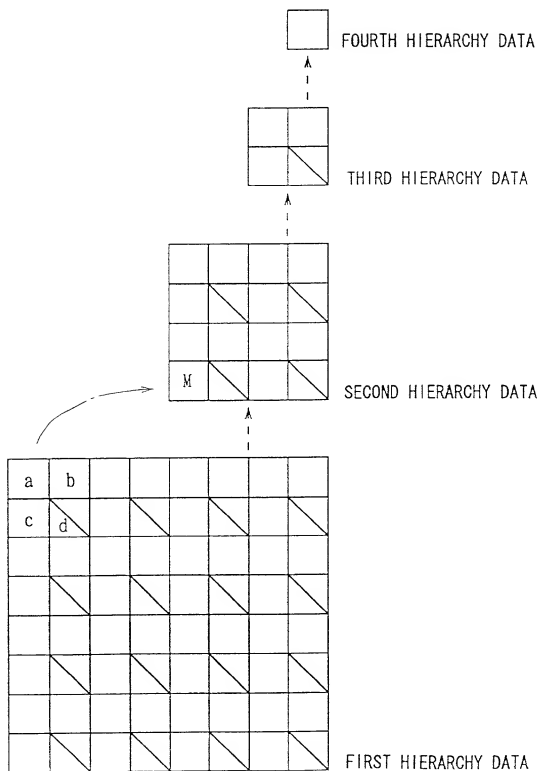


FIG. 8

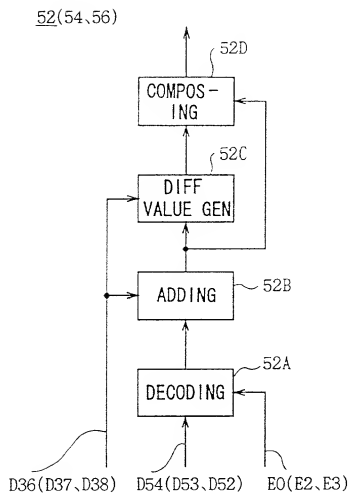


FIG. 9

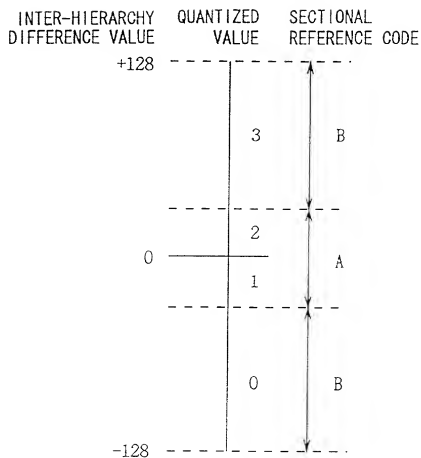


FIG. 10

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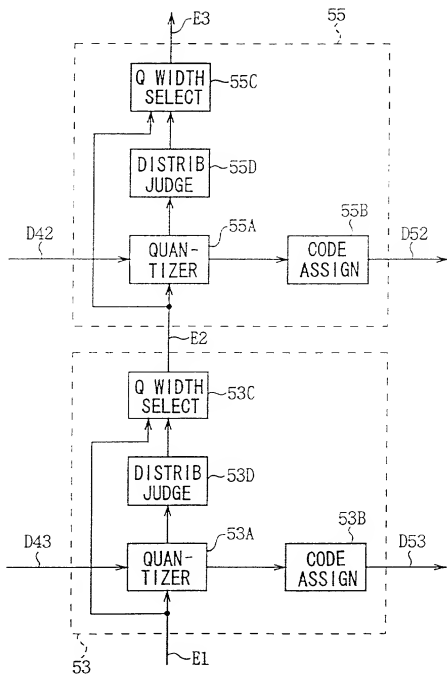


FIG. 11

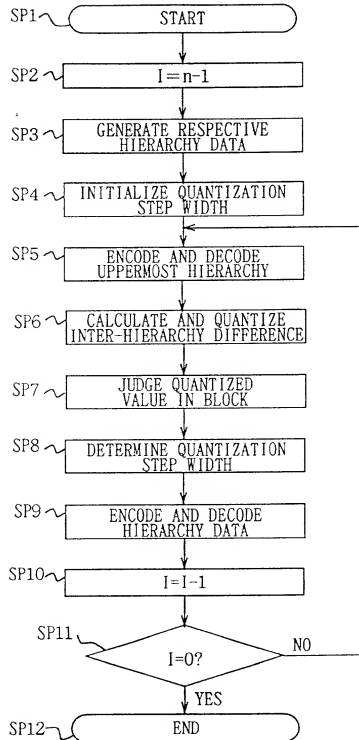


FIG. 12

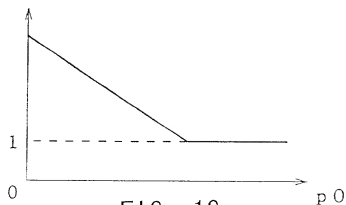
LINEAR WEIGHT : $w_1(p_0)$ 

FIG. 13

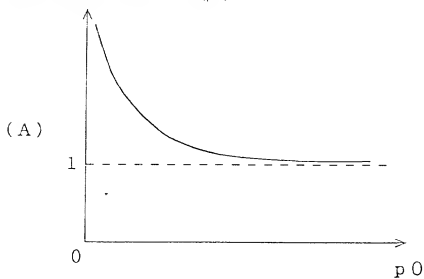
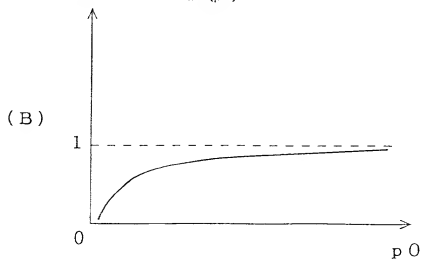
NON-LINEAR WEIGHT : $w_2(p_0)$ NON-LINEAR WEIGHT : $w_3(p_0)$ 

FIG. 14

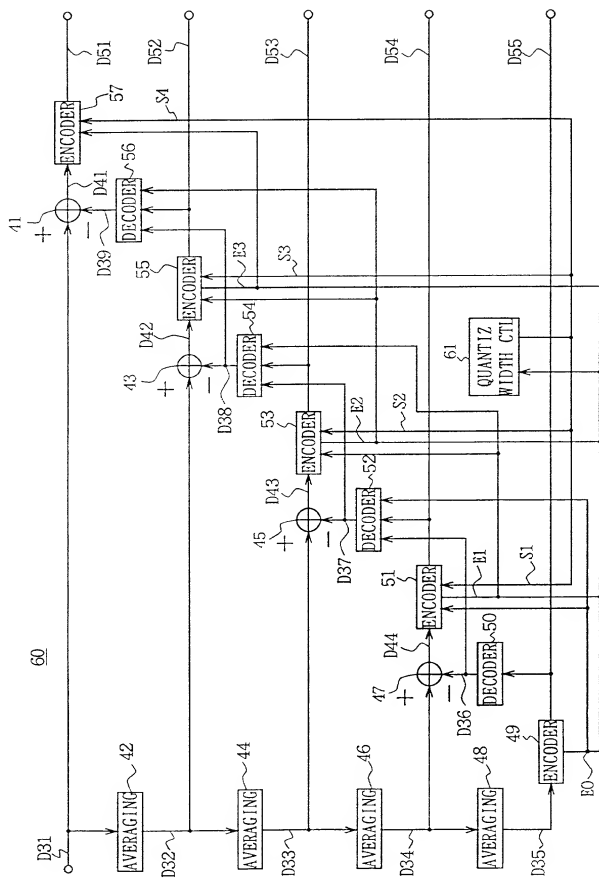


FIG. 15

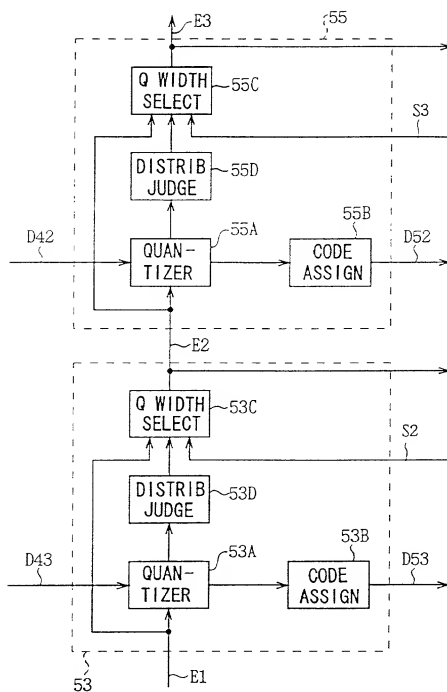


FIG. 16

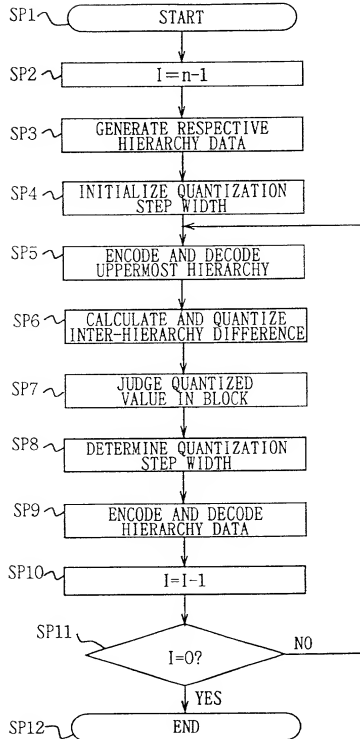


FIG. 17

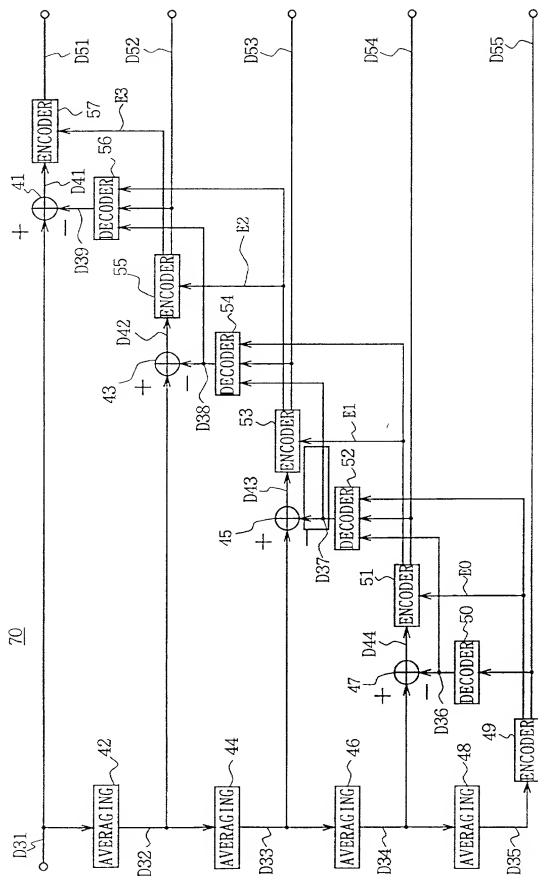


FIG. 18

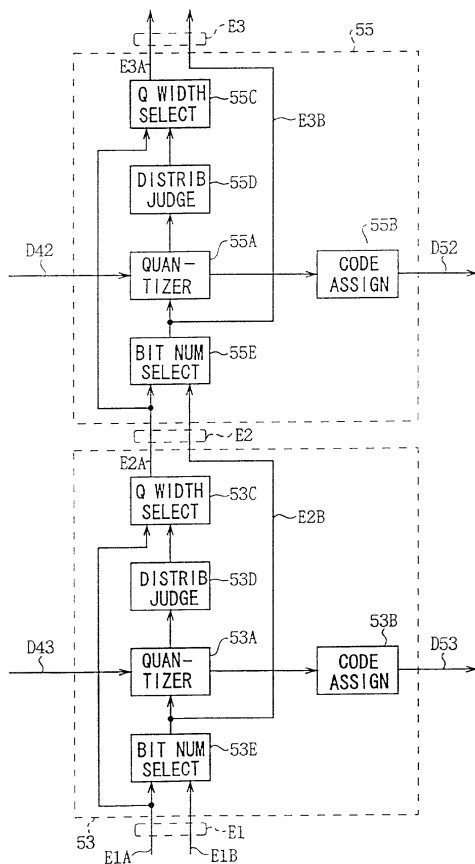


FIG. 19

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QUANTIZATION BIT NUMBER
WEIGHT DETERMINING FUNCTION : $f_0(p_0)$

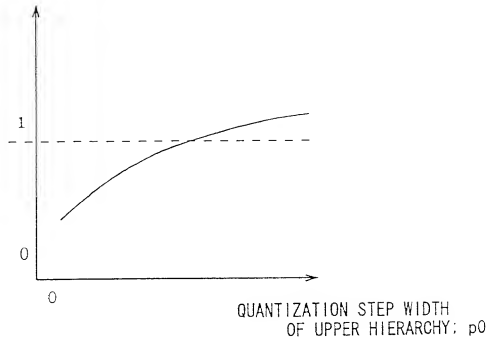


FIG. 20

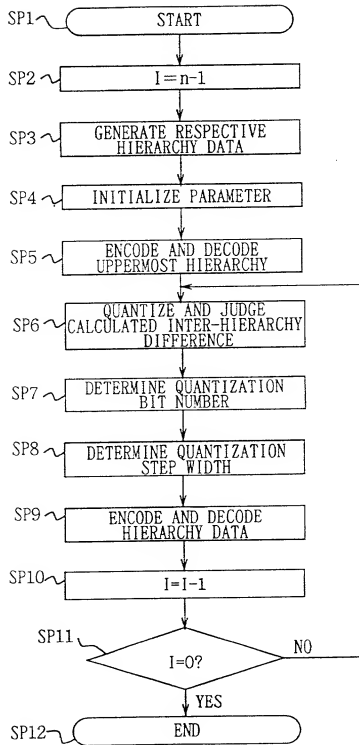


FIG. 21

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QUANTIZATION BIT NUMBER
WEIGHT DETERMINING FUNCTION ; $f_1(p_{tn})$

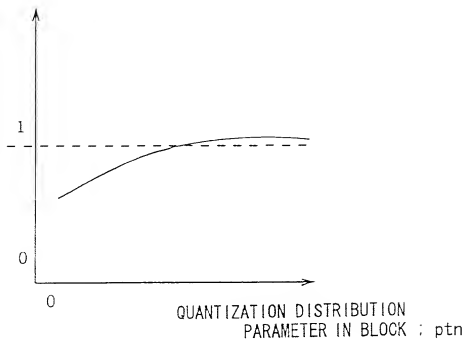


FIG. 22

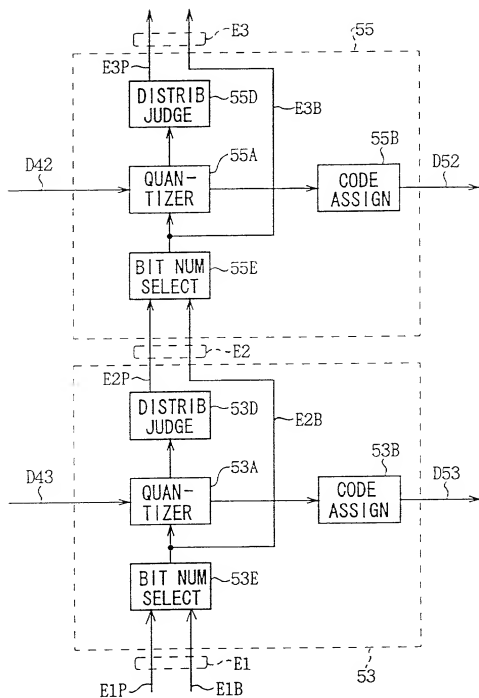


FIG. 23

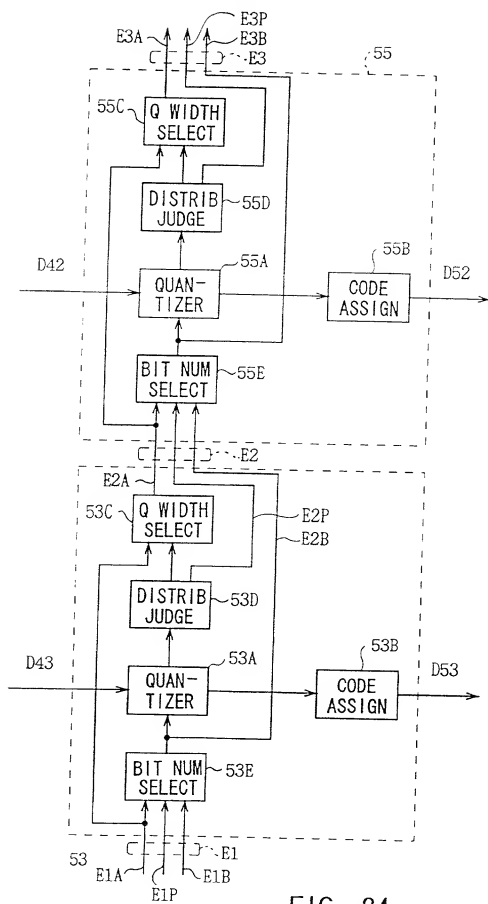


FIG. 24

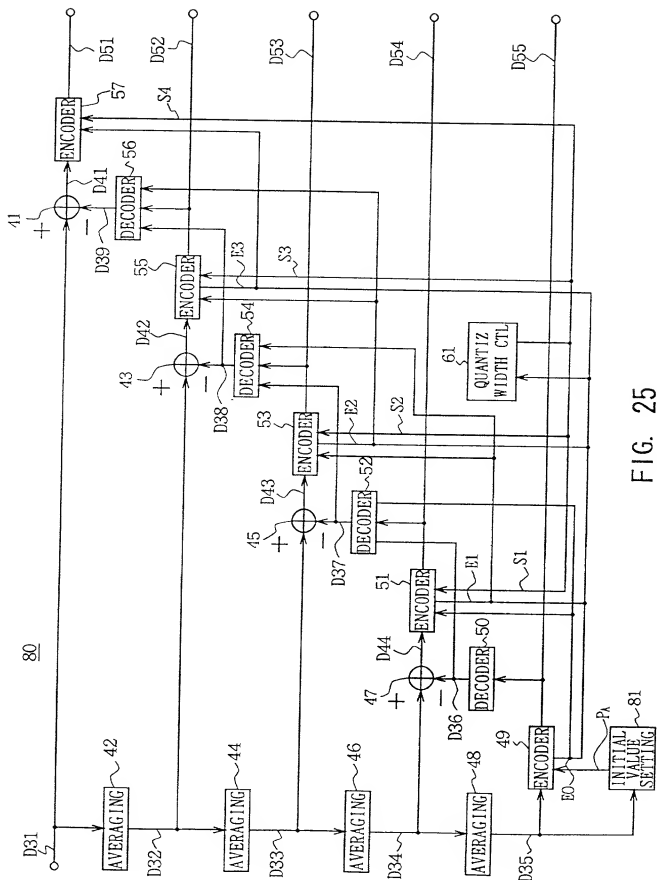


FIG. 25

| | | |
|----|----|----|
| x0 | x1 | x2 |
| x7 | m | x3 |
| x6 | x5 | x4 |

FIG. 26

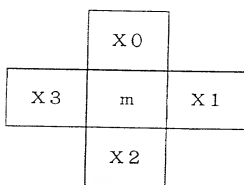


FIG. 28

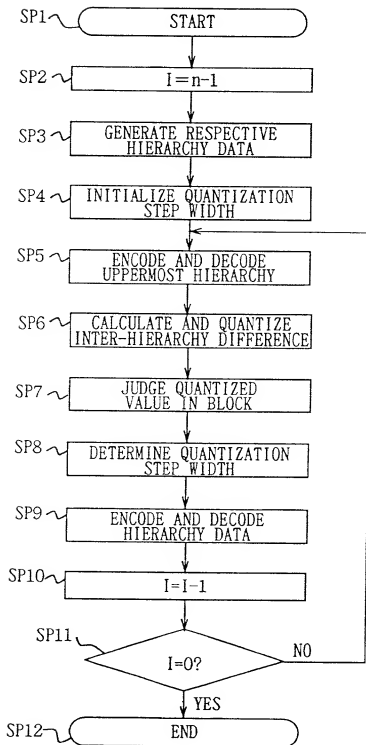


FIG. 27

| X 0 | X 1 | X 2 | X 3 | X 4 |
|-----|-----|-----|-----|-----|
| | | | | |
| | | m | | |
| | | | | |
| | | | | |

FIG. 29

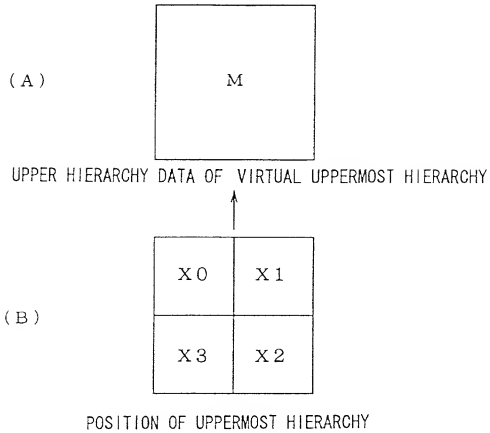


FIG. 30